The Oldest American Aeronautical Magazine

SEPTEMBER 19, 1927

Issued Weekly

PRICE 15 CENTS



VOLUME IIIXX

SPECIAL FEATURES

NUMBER

AVIATION AND BUSINESS NEXT STEP, SUPERCHARGERS? THE STINSON-DETROITER MONOPLANE

AVIATION PUBLISHING CORPORATION

Editorial and Business Offices 250 WEST 57 STREET, NEW YORK Publication Office

HIGHLAND, N. Y. Entered as Second-Class Matter, Nov. 22, 1920, at the Post Office, at Highland, N. Y. nuder Art of March 3, 1879

Seprender 29, 1927



Learn As Other Pilots Have

- the value of buying a WACO Airplane Arribas Phets are tudo covering incoverable miles, in both commercial and pleasure

They choose the WACO because it case them more performance and safety features. Became production at WACO plants assures them of immediate service on replacements. The New WACO Ton surrange all provings models to style, performance and soluty.

Its crack take-off, fast climb, high tree speed and ease with which it does all that you ask of In soft-type, hydradic shock absorbing, leading one takes all the unphrassories out of Its study familiage and was sections, engineered to withstand motors from 90 to 250 house

Ask Police Stong WACD or for the same of our second





Mobiloil?

What an examination of Col. Lindbergh's engine showed



L'orestal deschusor Hr salely, efficiently



VACUUM OIL COMPANY TO MAKE A PROPERTY STATES AND ASSESSMENT AND ASSESSMENT AND ASSESSMENT ASSESSMEN

THREE

GREAT CURTISS

MILITARY

AFROPLANES



"HAWK" Standard Pursuit type of the U. S. Army

"FALCON" Standard Observation and Attack type of the U. S. Army Air Corps.

And now -

"CONDOR" The latest development in bombing seroplanes for the Air Corps. Develoced under the Curtim system of Group Progression on cooperation with Air Coops experts, and already credited in preliminary tests, with a performance for correspond standard types.

THE CURTISS AEROPLANE & MOTOR CO., Inc.

Offices: Garden City, N. Y. Factories: Garden City and Buffalo, N. Y.



Worth & Hornet Leadership Decrees Money Consenting Red and Dielo

Congueg of all accounter at the row of the

Forged and Divided Aluminum Main Crankcase

The Wass at 1900 R.P.M

> 41 1900 R.P.M. Weight 750 lbs.

Prott & Whitney engines feature a forged instead of cast abronoum mum grankcase, consisting of two identical pieces facing each other and held together by nine through The forging increases the strength two-fold and elementes the danger of casting defects. The design divides the load equally between the two men bearings and provides rigid erankshaft support.

This basic freques in both the "Wasp" and the "Hornet" has proved the way for high powered, big displacement sir-cooled radials and is making possible the broad ap-



HARTFORD CONNECTICUT

ENGINES DEPENDABLE

LORRAINE-DIETRICH AIRPLANE ENGINES





A Result of Vast Technical Experience

Simple design and construction, economical
maintenance and great reliability

CORRAINE CONTRICE engines see the heat barrow and must wisidly much in the buffilser records which have nearly a verific. Not early have they arbitected wide actualize, but they have driven used are deverous thousands of planes, both currians and rulkbury, though the doily restrate which demands as much of see engine and about which as bittle is sald.

54,000 miles in 300 hours of flight — Eccas-Mathema-Takin-Boson, achieved by Colonial De Phaeds in a S. A. V. O. I. A. Sying heat with 450 H. P. segins.
New York-Boson Aires, by Duggas, Orrero and Campuselli, in a S. A. V. O. L. A. Sying hasten at the seging the seging of the property of the seging the segin

1926 Warld's albitude record of 19,300 feet, by Callino, flying a Eleciot-Spaol, with 450 H. F. Erris Kenne Dezia Gondal neu-Fritz by Pelice ter-Dairy and Gonzain in a Paries 25 with 510 H. F. surgian.

2027

15,000 saltes in Bying heat surges Africa. by Captanase do coverto Guilband and mechanic Biplan.

16,000 saltes in Bying heat surges Africa. by Captanase do coverto Guilband and mechanic Biplan.

16,000 saltes in Section 10,000 main in a new Captanas of the Captanas in a new conception of the Captanas in a new content of the Captanas in a new

3,900 males on 3 days, by Asymbast and Carel,

6,560 seiles es 6 ders, 16 hours, Paris Politar

ley Pelleties Deier and Carol in a Bresnet

6,500 miles in 9 days, (9 steps) Tukes-Copershagen by Captoin Betred flying a Fekker with

4,000 rades in 41 hours 45 minutes, total time,

650 H. P. cucine.

with 450 H. P. engine.

SOCIÉTÉ LORRAINE-DIETRICH

ARGENTEUIL (Scine-et-Oise) FRANCE

WORCESTER AIR PAGEANT

Largest Air Meet Ever Attempted in New England
THE OFFICIAL DEDICATION OF

WORCESTER'S \$75,000 AIRPORT

Saturday, October 8, 1927
North Grafton, Mass.

Complete Air Program and Passenger Carrying

PRIZES - \$2500.

FREE GAS AND OIL TO ALL CONTESTANTS FREE FOOD AND ACCOMMODATION

Far full infarmation, address:

JAMES P. WHITTALL

Chairmen Wereester Air Papeast Committee
Box 87, WORCESTER, MASS.

September 19, 1901

CHANGE IN PRICE

WITH THE ISSUE OF OCTOBER 3rd

THE PRICE OF

will be

20 CENTS

THE YEARLY SUBSCRIPTION PRICES \$4 U. S. AND POSSESSIONS. \$5 CANADA AND \$6 ALL OTHER COUNTRIES WILL REMAIN THE SAME

AVIATION PUBLISHING CORPORATION 250 M/ 57mr 9v New York Crry



This Spray Throwing Business.... TX monthing to think shoot ... For my and the wood from with dor



Those are now in production and ready for delivery for acritions of 1500 to 1000 the green weight. Other stees me-

Metallou Bornaue: Fourhold Arphine Mainfacturing Corporation, Indicatory of Francisch Arbains Gorpoundes, Formangials, Long Idead, N. Y. Improposed such a special waterproof and non-horden-ing plus. By changing this type between the noted over-

FAIRCHILD PONTOONS

PRODUCED MERCINE SANDATURE CORPORATION



The Ryan Brougham

Five Place Monoplane



Cruising Range 750 miles

unusually comfortable.

Leading a new trend in acconautical design we have built the Brougham to carry 83 gallons of gasoline, pilot, four passengers. and baggage of five suit cases conveniently stoyed out of the way in the rear Fully loaded the usual performance of this type monoplane

is at once apparent, quick take-off, slow landing speed, high cruising speed, and excellent maneuverability. Upholstered in silk mohair with the entire cabin insulated with Balsam wool, owners are finding this newest product of

the Mahoney Factory not only efficient and economical but "The same model that Colonel Lindbergh Reas.

adapted to consenses correine WITH SUPER-INSPECTED J-5-C MOTOR \$9,700.00

B. F. MAHONEY AIRCRAFT CORP.

SAN DIEGO, CALIFORNIA



Dresso M. Mora Testend Ader Lot. D. Oncor Position of Star Barren and Editorial Office - 250 W 57rp St., New York Larres D. Gotton Publication Office -- Holest stem N. V. C. D. Winnes Passed Gener Newsca Spires Marros

SEPTEMBER 19, 1927 Index to Contents

Val. XXIII

NEWS ARTICLES AND ITEMS

Elsh Ashed on Western Mail Boots De Havilland "Toye Noth" Makes 20,000 ft. . . . 669 New Planes for National Guard Soundame (60) No News of New York to Roose Plane 671 Swelley Amalone Plots Russian Tru Speed 673

Editorials ... Next Stee, Semenbarana? 671 Aviation and Business 674 A New OX5 Commercial Managing 676 Aircraft Tende Notes 678 Farrige Arranapotal News 629 Airports and Airwans 652

WHISE TO PLY
ADRESS SHEETING AND THE STATE OF THE CTANADATI ADVIETESTA

With the Editor

The rubbabing date of this

naufets. The erced in known on to be held at Brekaus, Wesh . Sonn two Purchs Dang (Stentranscentiatoral (New York-

rewet this reblination deriver

the Oct. 3 huge on ere written



THE VOUGHT FU FIGHTER

THE WORLD'S PASTEST SERVICE SINGLE-SEATER AIRPLANT AT ALTITUDES ABOVE 20,000 FEET

The Vericle serele-place Naval Shipboard Fighters, Model FU-1, have

The service collins is more than 20,000 feet and the high most as 20,000 feet skrittske is 20 miles per lover greater than the high speed

They are also the first production surpluses in which superchargers have been used with accorded engines.

CHANCE VOUGHT CORPORATION

LONG ISLAND CITY, NEW YORK



Vale-Government Air Mail Service

became a contract corrigo. This was in according with

with its duly round trip service from easet to count in

The Air Mail has been as a bader of honor to every

wan connected with it, and every man who has become

The holdness of the conception, so far back as 1988, at

deeds was elocal to further entiry on residuals of Aus-A FTER NINE years and two months of submises. The names of Praeger, Shaughnessy, Hunderson and Glover will ever be associated with this creditable

templated fest seemed foolbandy and reckless, but seexcelled preparations than others. However, in reference

of mon and women who espired to equal and better the

Ambition's Toll W IVH HACH now report of and minfurtume befolion

the made. By this settion the government pays a splentractural exactions are more rigid than is the perfer-With the ringing down of the section on the U S

enfers subraded field committeens and this array of respections soon with their reserves of a quarter million. not or even-unity guestion and unit order-meand by-ing passes beyond the experimental chape there will be those calon who take off from civilized ground and for that driving of the such, will confine to upded in the tag pages beyond the expressional stage confined at such as a survice the food traditions of the those global who take off from critical registed United States All Mail whom golden book of into the delivition of the arrange Vallacia.

The Stinson-Detroiter Monoplane

Powered by Single Wright Whirlwind Engine and with Exception Of Fabric and Wine Stars it is Constructed Entirely of Metal

he had a remerkable development, superally sensitiveing that the expression is not two spens of h. Deven to expression to the properties of the state of Asports in the examination of the state of the planes again which it is not consecution; has anothed Sigplanes per verice. Serious for its perposent, being benefit of the state of the state of the state of the state of the Edward As Edward whose Let years they are expressed in the expression of Editions (Mancia, and Martine as stated expression of Editions (Mancia, and Martine as stated expression of Editions (Mancia, and Martine as a stated and associated as a second and associated as a stated of the state of the stat

Many Propriator Users

ment comprises an evolument for effective, streng, "A where on the curvers once of the texps interest momers that they said a profitably on auternit on their sales and survers work of efficiency forms in the saids and survers works of efficiency forms in the saids over a "A white Parkingson Co., arthritisms of survers! artifacts!" hereon mangament; the whigh a spersing a Sentence pages to deciment the density which as particular generate grade of the same and predict which is a particular generate grade and the same as a predictive plants much be and. The Changes from the Emmans in continprises much be and. The Changes from the Emmans in contintive transport of the same and the said of the same and the forms of the said. The Changes from the Emmans is continted to the said of the said of the said of the said of the forms of the said of the said of the said of the said of the forms of the said of the said of the said of the said of the Ganda Canyon. The "Now 1000 Chin of Delives into over a

As soften abbrevant in year was the violating of the Striams Inching was by Edwin Edward Striams (as a south loss of 2000 ft, and a south lost of 1000 ft, and a south lost of 1100 ft, the secure current of year cuty. The softeness of the source companion for vaccourse of the south loss of the south

onto these of others plant mader beary tool continues as the control of the Child Ch

September 39, 1927

creft Poid, Long Stand, during September. Hangur to be Erceted at Phyling Poids

The Bissen freign field, bential, what we rifer from the treative it Streetfield is a consistent area and disclosure (the relative its Streetfield in a consistent area for a consistent area for the consistent in the consistent i



Post paster vary of the Disconflavoror manuface manufactured by the Discon Article Corp.



Front when of the Science-Detropor managhms (Whight Whirleshol)

properties of the wing place is motted the visited southing our stability. The thesis Detribute recognition recognition must be able of 150 ms, with the plottly break of the consisttion entire time. The properties that the test of the prince. The water where we add to the place we have a state of the water where we add to the place we have a state of the consistence of the prince of the place of the place of the prince of the place of the place of the place of the charges in come of a creat. The sub-window by the place is recognition to the place of the place of the theory of the place of the place of the place of the things or the place of the place of the place of the things or the place of the place of the place of the place of the things or the place of the place of

table construction. They are aslated by point-poil wide stding through repulse becomes.

But a wood in used to fair the steel table 161 struct. These useds are Earls with zeros ellopatement in the lower and to foodblade suggrega the warps.

Deprehensel vashed stale taking is need as the freedament of the top new heavy takes at abscess molyberouse steel tolrogs the compression leads from the space. The teplace is

The congruence is of welded steel table construction concern with finitum. Both stabilizar and derenter are consoled by party yells in the forcing above the lower fragress on 8, bits the astronous they shale in graphite learnings. By having the fin in Thue width the slop dreams, the consulty of bedfore larget product is consented. The balanced radder is emtended by rather in the result security. The counts, below is an elemental subgraturem test thesing, supported to the contract of the property of the subgrature of the contract contract of the best property on contract contract of the contra





Zuer spurber einer ei fin Beieger Debreber mentefann

Pride of Detroit Reaches Hongkong

Shortly before, seen hed been precioud of the areither Buckek, Situs, or Eucas. When they were not eighted



Edward E. Schoo and William S. Preth, pilets of the Summa Departure Prints of Departure at Brokel, public from were amount, but in emplanation the

Hongkeng is absent the halfyry mark at the fight. At that poul, they had notired \$3,000 mt of the proposed \$2,000 mt of th From Harakony the surmer have only a 700 mi. dight to

The Pends of Detroit represent to date follows:

Manick, Aug. 20, to Relyoids Constantineple, Sept. 3, drived by Turkish aetherities Constantineple, Sept. 2, to Begind contantions, Bept 2, to Segfat J. J.Fl.
Bagfat, Sept 3, to Dender Abban, Partis 65
Bender Abban, Furdis 1964, 4, to Karcoli, Infla 711
From Kurschi, Sept. 4, to Albhabed, Polis 95
From Klinkhold, Seri. 4, to Chiefet. 955
From Klinkhold, Seri. 4, to Chiefet.

From Hang, Sept. 5, to Houghoup, China

MILMAGE AREAD Sand Bland of Midway Islands, U. S. (rades beaute) 2,000 Honolula, U Si (mille buscon) 1,440 Harbor Grace 5,500 Total Milman sheed 11,807

Ride Asked On Western Mail Posts An edvertmented her been litted inviting agreeoals for the transportation of air mad under contract as follows: CHEYESNE, WYO, we DESVER AND CHARLES

SPRINGS to PURSIO, COLO., and prints. Distract each are an display at all pent offices on the regio, and the mstructions to kidders motered therein are unaform. The nebulate to be adopted will require an average flying speed of all head one bundered (100) map.h. The Dayartment lot under fremenkle conditions even better time may be non-Power allocation will be made in all such case The head to be furnished with the proposal is so the arrest of \$2,000 and will run concurrent with the head flar-

truct bond will be fined at not less then \$15,000. Custour's or Cartified sheeks are not acceptable as a head Contraction must permit please of other contraction on successing lines to lead and take off at all fields on this year. Properti kiesky may be abbeined from pophysaters on the Carling Plane Fails to Reach London

A few shart hours after the pilots of the Pohker mose laur bound for Lowden, England. Det unce that lime as



The "But John Carbor" plinted by Gap. Torsy Tolly and Loud Marcost which is believed to be been in the Month Adjusts on the of an assessment amongs to by time Hadron Chara, N. E. to. rivel at the Owners sinforms, suitable London, Restandleafing. But when the plane was long overfue experts

and Medical raises the trees occurs death toll to pranty-usus Curtiss Pilot to Test "Hawks" in Chile recould' for Chile on the 5 5 Santa Abea to fact and out by to official service too Cartise "Hawk" present please for the

New Fuel Improves Engine Performance

When the second National Arr Toor model Toke, Otla . Panis knock! confiling and retails have shown it more come-

High Volutility Ands Altitude Pleine

at all@ides above 18,000 ft where many of the heavier game

The econductant of natural proclam has, during neared years, moreoved repully to the oil producing medium of the years, moreoved reporty to the out pressuring sheltons of the Mad Continent and Childrens fields and software of this pro-duct have only presently reclined the restricted of branches has resolved as a finished first reflect than as a blooding modern

Modern softener concesses have enabled natural confine wavefurturers to thereastly stabilize they product well the evaporation losses are no previor than from auditory refract experience resources one of the president objections related

amigual the older trees of natural gusofine, which was "WES" The find word by the Nafamal Air Tour chase on their Sight from Tubes was of approximately 72 greenly and a very low and point. It is not possible at this fing to some from by the American Sometr of Testone Materials and usologics a expervation of Dr. Geo G. Brave, professor of chancel gr-Arrest Triss. Okla , but December, following the slope of

De Havilland "Tiger Meth" Makus 20,000 Ft. A claim for the world's altitude record for lackt planes was arthlished on Aug. 20 when the Herint polet, Copt. Hehrer Front clocked 20,000 ft. in 17 cm; at a de Havdland "Toper



The new B.H. There Medy in diple with Expedy Street at the

new ablitude record, the manu plans set a new works's light plans are a new works's light plans mand mark of 181 67 m m h. New Planes for National Guard Squadrens Argonnesses in made of the following vigares in the connection on applica daugn of a type mitable for the

The Doubles Assultan Co of Funda Marson, Oalst.; that

The "Pheasant" Three Place Biplane

First Production Plane of Phenomt Aircraft Co. is Powered With an OX5 Engine

THE PIECE production pleas of the Photocol Aircraft. exposes to be extremely serviline on all controls at stalkage



From sum of the "Phonous" (SEQ).





by sade. The rudder is actuated by calibe controlled by face pedds. To compensate for my longthadhad variation is bad nend Fing in an easy landing about the free frees were

The manufacturer's regularities and mediaments from Soon werer were in the contract of the 12 Wright moty 1150 Overel hagels 20 ft 6



New years nice of the "Thursde" these place highers.

AVIATION Next Step, Superchargers? B+ LIEUT, COMDR. F. W. WEAD, U.S.N.

WITH THE mosters of re-moist engine recepts and and additional constitution. The studies to consist affi-

September 18, 1927

Fan Type Driven by Reduction George



In consumal simult aspectages at recent would of



bottes in male in the copyriherant on the Woulds midd FU s though an obtaining on the right side of the stages coulding, as shown about

In Army and Newy already supershapper she offer on-

had side due to the cuttol effect but also because of affiliate

Unfolgen Depends on Type of Plane

Sentender 19, 1927

With handers, could, spetter, and tarpedo places other but will take that lead to a much greater bording altitude cucked engine installations, and, to now extent, speculage

Exemination for Aust Machanical Engineer The United States Croil Service Constitutes has europeand to be so the at Oscioness, Osso, rat later than Sept. 30. The salety is from \$2,400 to \$5,000 a year. A reasony in this sortion in the Air Corps. Material Division. Wright ther confederations, at apprentmetally the same rate of vac. and

Perfor devils on he should be abbreviar the services

No News of New York to Rome Plans



lore and show the valve again. The longs empty tank could less the plane affect almost miletarity.

Swallow Airplane Plant Running Ton Speed The factory which adoption the Smalley at "the first

Mr Russell found the pleat overwhelmed with seden and

three places a week heat he places he put on a might forme. within the next therty days sed double this subpat

Derroy the hundredness of a Fields type separatoryes on a Vergles

person the rouge at JAON III, with a normal suggest and

region, but creat, the power entred at 20,800 it in practical

Expendanced it is stone 27,000 ft. A Voucht Sobker

Aviation and Business

IB THANSPORTATION promises to be one of the Becomes goes through neveral different system. There are

early in June. In 1907 on the other hand it had hardly be

It is shown that with ourse rapid means of transportation

of made on the Payelle Count will't them in a champ on the

desired on the Atlanta, goods can be quarily corned from It can be seen then that in the same of revisions goods a

Deputie system of breatures are those which you their energe

No Service Department State 2007 The automobile has made if possible for merchants to beg



the bits or the set justifier 'justoy' that has completed means yours all hashed and wishfolded covers as the withing when of the T. E. Army An in. One the right or the newly observed dischaint planes, the Consolidation (Fig. 7) and for it has been been prepared as the property of the

caughty of goods seviceed over the country and the skilling

From Distribution Conton

Duler the arrorst modifices with the recently of holders most that denough. With favor distributing possis and with facilities for suffling mosts from one years to easily within on federates making and sedime various hinds of marrianers

Would Tend to Reduce Selling Costs

tipply has mand reffices of tops of end and thorough of militars of dollars in power plust broodness. In other

Aerial Express Service



j. E. Fulker third garded manager of the American bending come of the suprem necessary on the first of Film Hannes Garden; of the Manager Air Engine the American Engine Engine (September 1) of the September 1 (September 2) only of the September 1)

Definite Cancellation of Mail Contract

The Fenner Are Transport, Inc., holding the six mad one

A New OXS Commercial Monoplene



Side need of the new Easter Albands ONg montplets

The split axis tope of heading garr of very storky see



a strength's and the electronic army in wood in fight as a radderfrom school best flights with a stock OXS regues and wander

Was selen Clark

September 19, 192

Callizo Convicted of Air Record Fraud As a real of a permit horizor confected by the Acro-

homself and murely saked that he he adapted to stone for his the life from her compensus; much encous her record per-rusually approved on Oct. 30, 2926, and Aug. 23, 1828, for In safety, the Acro Clab purposes to subset evalues against Califor to the Cheatellory of the Logice of Piccor signation in filted with a surem of rather where short sings

In the event that the PAL takes like action the world's Junior Aeronautical Engineer Examination

The Durant States Cool Sternes Commission arrangement the JUNIOR ASSOCIATIONA EMPIREMENTAL EMPIREMENTAL PROPERTY AND INCOME. Applications for pusier netrounded segment must be as fits with the Cord Server Dominison at Wednesday, D. C. The entrance unlary to the Detect of Columbia, is \$1.803

Coppetition will be misd on seneral signals, mathematics. Civil Service Commission, Weshington, D. C., or the secre-ters of the board of U. S. strij service exemptions at the post

offen or customisten to any eftr.

September 18, 1927 AIRCRAFT PATENTS

Visite and Technologie is considered that the signal of the partial Rep. 1991, ON DESCRIPTION OF VIOLENCE OF THE APPRICATE OF THE PROPERTY OF

.....

England's New Owen of the Air



• The H ¹ described as the Leynor fifth beg at the world which has been being the size Earth at B. Bernigh. Explored, in consequel options of the less than and through which is the beautiful about the less than the size of the si

Aircraft Trade Notes

The Gross Acro Stres Mooch Absorber The Gross Acro Stres Shakes, a region to be lead type good of surflewer, grow the should surface the surflewer of the lead type good of surflewer, given the shoulds automaty for the stress surflewer of the stress of the surflewer of the lead to the surflewer of the surflewer



A from Am Fast with a most or it is the throught would assisted and mixed by secretify to the greatest worked and mixed by secretify to the greatest and produced and produced

and shorter brokers, when care the wheely gow he the second

The Prudden-San Diego Airplane Co.

on a subset of the by front, and working for the first of the first of

The Present (does not ready accordance will be been trivial) of increases, by "review's in a present in accordance to the present accordance to the present accordance and the first verific in a principle of accordance for the present and the first all owners of the trivial districts. But have reconstructed the first of mostly regulate in the United States which is serving on the start of the first principle accordance on the Principle Contraction of the Principle is nowing in the first of the first principle for a Principle Contraction of the Principle Contract

Varnish Salesman Usea Airpla

Mr. Other is som of F. S. Dilly, another of Beery Rives, and a gradual or of Beery Rives and a gradual or of Beers Rives. The source of a gradual or of Beers Rives and a gradual of the State of Beers Rives and the Beers Rives and the State of Beers Rives and the Beers Rives Rives and the Beers Rives Rives and the Beers Rives Riv

Coor, celling on customers between South and See Biggs. Scintilla Magneto Official On Air Tour

I. L. France, vine possiblest and naise repriner of Estrail, repeate Co. Inc. of Statery, N. 7, in mixing a nation-red vivole time by vin mall places. Les van Changes of 8 90 PM. Ann. 31, via th Basera Jan. r. Frager's discessory includes San. Francisco, Lan. Aggebrailet and release to Kere Vict. for an Annual Lan. Angeles salter and release to Kere Vict. for an Annual Lan. Angeles Ta a bitter la Annual respecte from Changes, to contend hidd machines as all could field: from Changes, to contend hidd

Foreign Aeronautical News Notes

Luft House Reports Steady Progress The Details Laft Hann Abbregoulishelt was expected

And the second of the second o

The below scales of processor correct derive to immost of the property and blue in a some of impact and minimum, and the processor of the model for the processor of the pr

6, 1800. The network of his loss was decided upon in an-

meries of the International Commerce Commerce, we may international Same Association.

Whithy of special meries is the reportalization fight of two large commerced pieces over Bessia to Posta and India, and the collaboration of two farge meries in the Oods 191 Their to Acquestion and Brandley partial, the company had At the beginning of the large partial, the company had shall 100 pieces meeting the increasing responsements with shall 100 pieces meeting the large meaning the best meries of the same property of the transfer of the commerce of the contract of the commerce of the commerce of the transfer of the commerce of the contract of the commerce of

At the beginning of the flying period, the company but should 100 planes meeting the size insupport regimentarity with which he shart operation. For the soil of the year reported, the number had consend to 150, of which II were bring conmercial planes. The oblique between that had been below to the state of the period of the state of the period of the state of the

meritaria matte fa possible sa mitaliza intercentaria e in spina tra studia i desir desirazione al meritari a finanti fra pisteri a modeli la di siriazione al meritari a finanti fra sistemina productiva della matteria di sistemina di siste

a total of 804 mm (650 employee, 470 workings) to 1,021 1504 employees, 963 workings) at the end of the year in parted. Spain Will Establish Two Classes of Airports

Two down of arrayme are to be established in Strain of Medical and Strain of Strain of

Militari, Ricegos, Gudese, and one in the Consey Intends, and special furthers at several parts for the use of amplianes are thin planned.

Additional Homper of Frenkfurt Airdrone.

These for an additional term become to be exceeded at the

Problem undepen have been made. The number of allphotograms at this port had erises, at the end of June, to (768, and Frendfurt now reads third enough thermop's alsperts, following Darbs and Orlogia.

rest-Constantinople Servi

nnemper Edreit-Sjord plants of the Le Compapinguit de Nempelies Aersense. They take the in flight. A plant huma Darkarest delly, unit i B.A.M., rambing the Son Stoffers field at Ca-1 is a M. D. Leaves Constantinguit for the real

Side Sli

The pend to use trying to make in the above is heel alles-

One Providence to mother "I understood that Col Land.

An excelere manufacturer used to be proof to our that his

mercy suplies, and leving tarported its construction w may to replace the steps, tall a sent for the pilot on back then eved to the engine and palot, and might to well by dorarded in fatore recers. We do keps, though, never to live

The recent action of the Army Air Service is "honorobly tradacting" of January to the province, has been a neutri-Education of Avisas and Custodium of Pend for Relating All Jessies of Ten Years of Ago. Then James, is count-maters of their long and fulfilled service are deserving of of this populy to provide such prescrits. Across wishing to



THE HAMILTON MONOPLANE. WHICH BINISHED SECOND IN THE FORD TOUR Proceed with Weight "Whatered" 221 hr. Ecgine

Econoped with SCINTILLA Aircraft Magnetos

SCINTILLA MAGNETO COMPANY, INC. Compartners to the U.S. Arrest and Navr SIDNEY, N. Y. .





Each one of us

heartaly recommends the quality of workestookle and material Unequaled performance has made the AMBRICAN BAGLE on-

AMERICAN EAGLE AIRCRAFT CORPORATION 2330 HARRISON STREET. KANSAS CITY, MISSOURI

Les Argeles, Calif.

Cal. Chories A. Lindbergh will land at Clover Field when he assists in Lee Augusts at 2 80 P.M., Sept. 20. A crowd The accommiss one only last from \$100 to \$ 50 PM; the verd from Clavre Field to the Leo Angelet City Holl where Mayor Cryer will extend the affects genering of the effici seconary by the sturnin attended to the field for a glowper starfir is attendance to answer configur and adverse restau-

turn and this assessment to location.
William E. Atronol, of Riverside, Cal., was all events. as fix Eouthern Calafornia model proces. The most was per-nifed ever by Major C. U. Mosely of Western Air Engreen. A second Politer University has been ordered by Jack The two stock model Keplescock places have been delivered and are being timed and instal for the National Air Easts Paul Backler left for Spolane on Sept. 6 in one of the The Acry Corporation specialism is passenger earlying, array no serial subdiffuse and will not sell a street side. The new York International highests are attreating much

September 29, 1927

AN ALEXANDER ANNOUNCEMENT

8 PLACE CABIN MONOPLANE ALEXANDER EAGLEROCK

-powerd with Winds Whiteful mater and have not on the market. Watch by dataly formance with Economy Contruction well.

Econ 651, Alexader Induceus fible, Deares, Cris.

A flying-suit that makes winter flying a pleasure . .

September 29, 2927

THE RECO STREET, worter from The INDOO last

JHLING BROS. FYERARD (b. Kalamanoo Dailorm Co

COMPLETE REBUILDING. TIME OVERHALL SALE and EXCHANGE of AVIATION MOTORS

ROCERY AIRLINES for and PARKER MOTOR REBUILDING CO. P. O. Pos. 53, For Fadague, N. Y. Besper 45, Curton Our Fides Personal Persons of

PERRY AUSTEN PERRY-AUSTEN

CLEAR ACETATE DOPE The Best Finish | University-Our Clear Assessed Perry-Austen Mfg. Co., States Island, N. Y. Contractors to District States Government

NICHOLAS-BEAZLEY SPECIALS

Watch this Space Each Week New Col Garges, 20, 60, and 120 Lin. \$1.50 New Syl² Doll Advantors, \$1.50 Act Stord Indicators, \$17.50 New type A. Jelsa-Magnelle, Todometra Feloule, \$12.00 New type A. Jelsa-Magnelle, Todometra Feloule, \$12.00 New Faithers Sentitles 410 in 1823 M New Faithers Sentitles 410 in 1823 M 400 in 18230 New Favory Newy type Companies, 512-98 New Favory News Transports, 512-98 New Clar Canager 36 OI 1866 Aut Promate Props. 51 OI ONS Engine Manack, 22e

"We will be here Tomorrop" 264 W North St. Marshall, Missouri

MODERN MILITARY AND COMMERCIAL PLANES Are Koninged With Our SHOCK ABSORBER CORD

Ferrors in the Manufacture of Sharks Coal So. Principle Producers of Good for Constitute and fully Engineed for the Largest Engineering or

J. W. WOOD ELASTIC WEB CO. STONESPISS, MASS, MASS,

TO MAKE AMERICA FIRST IN IS THE PURPOSE OF THE National Agronautic Association

In this effect it results and innites YOUR conneration and support Regular Membership \$5.00 per Year NATIONAL HEADQUARTERS 1623 H. Street, N.W., Washington, D. C.

Springfield, Mass.

under the copies of the securation divines of the descri-The party went to the read of the Faches & Wellow show

butter that stanted the light on its first night of regular duty.

Amphibian Landing Gear Competition

In order to encourage the development of system and to suprere the officency of morel reconstitut material, as consceptated by Ast. of Consesses, Public No. 446, approved 2 July 1655, the Secretary of the New tearres the submassive in competition, by scaled openings to tion, of dreign for Amphibian Landers Gran

Prospective competitors will be forwished scentral specific information on to the coordtices and respersesses of the competition and on to the versuas features to he fercloyed, together with the respective messures of specia of the designs submitted in competitions. All designs and sorographing date must be

above in the made and postmarked not been than midnish I December 1927. Information will be furnished men application to the Berray of Supplies and Acreepts.

T. W. LEUTZE. Actual Permeter Central of the Nation Parties federal recognition of local awarban some with the

Milasseless, Wis.

Air saft service and moves of making it more proceedly Corresponded on a small scale a demonstration of the posby the Hamilton Main! Please Co. Proceedy flow and over

"I want to congruentite year company on the new hand benker made out private. Letter the made halasts Venn, given and minous. Experity made have the fance materials. The moder and works

Gooding Arrestogs. If he cannot supply you, write to GORDON & FERGUSON, INC.

An effort to personale the War Department to establish a

The nor relatedly true, spensored by the Alexas Codworth Post of the American Leyen, renered additional importu-

Sept. 22, but a Mouros S. A.M., Japanelle, arm, c D. A.M. The taux will start at Milesanton and stall touch 11 Wis-course often 12 a 580 soft flight. The true will be broaded Bort f.r. who a mercy of the mosts and arrange for land-

Syracus, N. Y.

conting approached to the bishops of the experience

The second doe Community Bord upday before \$8,000 per-

The AIRSEDAN



SPECIFICATIONS

PERFORMANCE

Creamy Speed or tree POWER PLANT Wests Wieland ...

EOUIPMENT full forter, Rodge, Ment Projector The Accepts a not equipped with advanced middless Exception calculate

Fivaway, Our Field

BUHL AIRCRAFT CO. Marysville, Michigan

Riverside, Calif.

on you need ted not Arthraght the argent set be beriefle from the six welfard are idealized, in a few results for worth the worth "Executed Argent" will took up in his twenty from britan on the heapy reed. The first in sill on a satisfied learning on the Lee Argente-first Deep between one of Michael heapy, front, Apa Herr and M. Haghley.

San Angelo, Texas

Green Boy, Wis.

Fond de Lac, Wis.



PKW years any men had to leave sheet sirered from personal costs coverience. They had no one to maids there—say one to point out mostakes when they were made—and therefore years were spend learning what takes months now.

THOMOSYCH -- PRACTICAL TRAINING Today the American School of Arabon offen you these beg year of experience and hopeledge, which need STRITE TODAY your life at one jost beginning in the undustry you over it is necessarily be used for a complete and detailed outline of

name whether you have worked with alrefuser all in residue and for any and principal reflex of the residue and for any and principal fee back. Opportunities in the Angelon Industry." American School of Aviation Mehican Ave., CHICAGO, ILL 3001 Million Ave., Chicken, ILL



Byrd's Trans-Atlantic Plane Used Belden Shielded Cables

ONLY proven materials were used in Byrd's guest Febber "Asserses", beare it is not expressed that Baldes Radio Bhickled Wire was It is extra forms evidence of Belden rehibility that

Reiden Marufacturing Co. 1906 0.5 Westernto.





A New Production Commercial Airplane Whose Excellent Performance Proves that it is Right in Design and Construction

Old Timers pronounce this the best selection on the market among modern commercial jobs.	SPECIFICATIONS See print use School Corp. The state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the see School Corp. The state of the state of the see School Corp. The state of the state of the see School Corp. The state of the see School Corp.
SPECIAL PLATURES —Bed 19th top belong per —New Planest type stell devices around to use at landing, as admitted upon stell devices around to use at landing, as admitted and compile sentence in testing —this count trans unit compare to indicate the more Fin devices and contained and superior stellar fine and conjunities —Long parties of indicately. —Seal belong out in fraction and of all measures —posts along devices are of indicately of indicate provises any distingting of indigener.	
The price (subject to change) is only	\$2,100., flight-tested at our field. Only

reliable dealers need apply for territory.

PHEASANT AIRCRAFT CO., INC. MEMPHIS. MO.

walter the next few days. The postered also so to be lat Graduay on one of the currents in precioully finaled, and

September 19, 192

The surport remained and the city penerally are graitfied at Hadley Publ. Cartan Piold and in Bushester, and expects

Pertage, Wis. As an expression of local spicrost up the possibilities of managerial existing a joint meeting of otheren' organiza-

Madinan, Wis Buttares men of Madison and Oct, L. H. Britter, president

of the Nutlewest Arrays, Inc., will skide by recommenda-tions of the Department of Community in Sunday whether Boston, Mass.

Theodore Halconks, appellight of the Boston Chapter of the National Acronantic Association, has been appointed pulse for the model strylens copiest to be beld as part of the New England symbols apportion at Machanine English in Buston Supt. 25.-Oct. 1. He has remed Engers Sewell, mar-fine are new fraffic measury for Colonial Air Trustens England, Inc., on co-judges. Twenty models have already Capt Peter C. Horre, Larets Milton A. Bisrot, Levens B. Bannery, and Edward Newtall were on server date at the

being flown for them by E. P. Buyd, Kerni reserve pilet. Mr. Sarrosent Surmouty Sired at Mclynke and has been about then has been flying from various fields in this section. that the Dune field in Languerolev, which has been under

you is also under considerable, said Mr. Held. Work on none fine, bold the provint penchities for fature gravit. The Randell form field, which the Massachustit, Always state for Lauredate are let be speak our descripted if adoption as a municipal propert. Mr. Surgrant left have the Winstern Salem, N. C.

Oblahama Chy Obla

Titly Perker, where the Oblahopes Nave has called the "City's Front Home Opper Print" recently made a three lop-Cane and then the Whisteried outland Travel Arr highers of

y scouperty. Two provinced operated beares lights to guale flore into load municipal airport and in to beild his own field and

Utica, N. Y. The Trides Realty Corporation has empowed that the Those, N. Y., and which has been used for overell years as a fiving field, in no language symbols for agreently Mirrosapalis, Minn.

September 19, 1927

During the State Petr at Manaapplin this year an aircredt existes will be held on the grounds, an addition to the May Eay Miles, communiting the 1890; Acre Sonadres. within a large abandoned outcode rare track, that now serves

Commercial physics will of source he mostly in ordered but Major Hay Miller hopes to have none july type Army and Nevy types on callidat, Although there will be engineen The complete information on to what please will be on diplay is not evedable, but it is expected that the voti knows ong for public approval.

A best 100 x 400 ft, will because the above and it will no

The Wald-Chumberhale is a busy field as various self-filte see sealered them. The Northwest Airways operating their

was to Daleth in a Rall Armedea (4 passeapers and pilot-Cool E Binder) is using this export on a base, with the offices located in the lace reston. The 109th Acro Squadron Minnesota Nethanal Garra, under the second of Major R. S. Miller is staffaned here. Limit Oca. M. Palmer is the ambriefan, and there are fifteen rejet Several private please of various trees are an emilence of This field is easily recognized from the siy as it is enclosed

An over sight step will be useds here by the places per-The following cities, in addition to those abreely announced, Outers, Cold.; Welligndard, Corn., Mt. Dors, Vem Beach, Pla., Abres, On.; Housengton, II.; Houleagten, Ind.; D. Chen, Make: McCook, Man, Jakoro, N. V., Guller Rest, Patronaud, Gher; Styrth Beach, S. C.; Buston, Twa., Rudsed, St. Alban, Y., Mecamon, Va.; Keyor, W. Va.; Brist, Kewaman, Wo.

Daluth, Minn. Barrier Colonel Tandharet's home entries subdevilles in cluses of the Arrestond Alexans made the trip from here.

IMMEDIATE DELIVERY Rvan Brougham Monoplanes

The some model that Lindbergh flow, adapted to houseper corrora-WE SHALL BE PLEASED TO DEMONSTRATE TO ANYONE INTERESTED

The Ryan Brombam Morophians are equipped with WRIGHT WHIREWIND LOC Motors, have Standard Steel Propellers, and

Eclinse Hand Starters They are also provided with leavage con-The planes have a Crusting Speed of 100 miles per hour, and a Country Ramac of 750 poles.

These fratures combined with the quick take-off, slow landing speed, and manuscrapility make them ideal places. VON HOFFMANN AIRCRAFT CO.

(Distributors of Basin Monethleser) ST. LOUIS FLYING FIELD, ANGLUM. MO. mary where energy

ten, including the use

About 5 to 20 pieces wie annally seen of the field, some of which are visiting craft that have siapped over to be serviced.

Gone Blank and his partner 2. D. 32hs, who me a new-Student autracion, passenger sarrying, sakaline from

Mason City, Iowa

Cdy, In, recedly.

The deduction was sticeded by at least 25,000 persons from of more of auctions keen. The upperson included the ag-

postures of the nirther, Riol. from South Field, III. worth was in the command of Licet A. A. Anderson and Copt William Karners, se well on the performance of a kin Fekker place with three Whitehall caginet brought by Handers McKidez, Americal Scientary of War, who was at the deli-Od. Lindbergh's approximen came on the result of my feet

The young filer had told the year secretary once that he would The Mann Oty support is no 68 over treet, furly level and with condless natural facilities for the making of a good groft made at the deduction to any improvements at the

The post is pleasing the oblition of lights and other in-Normal's amport will be ready for non-widom the next N

Oakkrah, Wis. The Cabbook agreet proposition has been referred to the the amount disport proportion are not reterred to the

Miller Maniginel Airport, Worston Salen's new field, has been lessed to Republic Arranys, lee , for a penal of ter years The proposal fay leans was presented to the sirucut

The commission this asserted a seatrest to Epster Machin-ny Company of Winster-Seless, for suitalistics of food a terreport were supply, sail the off profess one he sea temporary wider supply, more the city system can be as tapided to the field, a well has been day and contrast for m

Philadelphia in that pareds one base on planes from New Jersey at 12 35 P M and 9 35 P M delly. helman Gattrobury and Westcorton and also as alspinar

The incorporators are Henry A. Berlines, Washington, Cherica P. Sweger, Andrew H. Mash, Charry Class, D. C. A commercial flying field will be purchased near fieldyn-

A Philadelphia party of five has already country to manufacture Philadell for a Shake from the case to Chicago

hold for elaster fights throughout the country with the Phri

The of the first correspond for the Facultal which was

R. & Saltus, record marrier of the Philadelphia Alryori,

ALL METAL

Planes and Parts

IN THE dails and contraction of service

durables thepse and system of fabrication which have materially reduced costs and weights

I AM NOT able to offer in organese, de-

painted durings stoppen, and draw purk in most day individual represents, put as maliry houses, forms servers, maid seek,

from second release, polici, obspilere and

parts under my petrete is also proclable

FATR beauting plan moder which a man

The factory was authorized July 27, 1937, and excellen of

laugestion of N. G. Air Units Shows Progress A recent impenden by the Militan Bureau of the War De-

to the Phile-Sophus airport by Arthur D. Entes, scentury of the Civil Service Communicate, who haded Typner as a manner

squadron and one photo section. There is also one field Asset plane, and system The entire Dry was under to an D-th plane, and system TAOD up of secondary flying. Deriver the firstly year coded Jane 10, 2007, each Mattens Guard pilot averaged Tibly he flying tem as pilot. The

More and more. shrewd buyers of aircraft are coming to depend on

Chence YOUR airplane

carefully. Choose Travel

Air-ren won't so wrong

Literature on respect

TRAVEL AIR MFG. CO., INC.

WICHITA, KANSAS

lask of transportation fundation to Europe. Ment of the sea-

The first "simplace garage" to apply for a charter in

Permutantia state the Limitaraph cours fight, has been ap-

corporates are Helen E. Colwello, browners, H. E. Gelwicks and John H. Adissa, all of Mechanischerg.

PITCAIRN uses

aero-cloth and tapes Sels Distributer W. HARRIS THURSTON THURSTON CUTTING CORPORATION

DARTMOUTH-TEX

DIGITAL PRANKLES STREET

NEW YORK CITY THE LEADING ASSO CLOTH FOR IS YEARS

and Wes. Mage, a member, were the passengers to the plane. Edde it patrolling the right-of-way of the Dalath, Minuke and Morthern Reiband and the properties of various louder court more tentilary within a short term then is possible In Goodiel, the guestly makes a pressints deep on Sanday offermores on a firstone attraction bounds Edular-

to repeter for a well known commercial place is planted. Philadelphia, Pa.

Twesty dive Philadelphia from made shipments to the West

GRUSS

AERO STRUT Shock Absorber Always in the AIR Yet on the

GROUND A posters hydroche check previous landing ank and about and ranger percentage in all pages of the obje-Selety, Fremony and

Efficiency Mandatani In GRUSS AIR SPRING CO. of AMERICA Son Francisco, California Full Information upon record

MY EXPERIENCE and promise regions M 152-manufacturing facilities are new provides of resolves all month prophens and exartence for ground military, or communical Contractor to the U.S. Name CHARLES WARD HALL, INC. IN EAST ON STREET

plane or the National Cored. There will be a temperary when all of the JN places are colvaged to since ping selevilies during the sent few months paine to delivery

Air Corns Reserve Officers in Active Daty is the number of poorre officers called on salive date. I is neglectated the recovery will be 110 each year until the named course of recover officers on date with the Army Air Carry will be 564, as called far to the expenses, prayres.

There are at the present time 0,072 reserve Air Coops offste in more types of service please; 3,007 some ander describe recogning 1,502 belong to class C, officers who are willing to Out of 527 Ecoryy officers who are raied as simplene ob In the Luckter-Mary Are Division which sumprises the figure of halloon and simbles the same negative explos, there are

to addition in these saint reserve officers, there are \$1500

ar 30 per cent of the total reserves that are inted as non-flare, serve officers, is at present passing through what may be termed a permutracion period. Old planes are being reshould with the number of wesh sale. This condition is a

imperacy inconvenier and of which will grow much more Army Air Orders Dark James M. McCarrier, the Cree Weater Print, in Washington Dark Jimes M. McCarrier, the All Congress in second in the Weater Print, in hale offer spec completes in the present loss of Personal Advant Adv Comp. Eng. Debugber, (SA), to make Facility recording to transfer others from 18 and 18 to the National Of Company, pg. 40 Comp. (Fight Adv.) is to

PRODUCTION

MMEDIATE SHIPMENT Contractors to U.S. Army and Nazy

VAN SCRAACK ROOS CHEMICAL BORRS MAR AVENDALE AVE.

WALLACE AERO CO. Bettendorf, lows. DOPE.

MODEL "MONOCOUP!

NOW AVAILABLE FOR IMMEDIATE DELIVERY

TITANINE Inc. UNION UNION COUNTY, N. J. Centractors in U. S. Greenment

Seamless Steel Tubing ROUND STREAMLINE ETC.

CHROME MOLYRDENUM

Socialists in Atlantic Dalbas-Kanadasbases for 25 Team SUMMERILL TUBING COMPANY AUDITORY MONTO CD (Polidota David PA

PUBLISHER'S NEWS LETTER

years to discuss accretation) begins in a more intrmate way than would be roughle in any other part of the paper will do its point into many new and interesting subjects shaling the next few worths. Major Gardson, the publisher of Avontrov. has measured a paper dealing with American commerand authoritative scaling of this association de-Gardaer who first crystalized the idea that the United States led the world in commercial critfing due to the extent of the serial service openturn. He consided former to demonstrate this at a time when everyone was beauthout the budswordyear of Spine in the country. He originated the turn "social service" to differentiate that show of

of Annayors will be the official observer for the National Associatios at the Schwicks Can Barre at Vesice. At he has seen all the for-Titte may exceed a description of the cases which found in the cable describes in the paverpapers. As these will be a most interactive events of letter. have school Major Gardner to vice some exercial with some of these well known False smooth

Breider attending the Congress, the publisher

It is not without a little easy that the stuff of AVIATION will follow the tile Mean Cardiner plens to take after the races. Lost year he first 21.500 sides over the various air bars of Formers. Asia and Africa and along the way out more politifier, he alian a rather miches had now the less totaleding Right this year.

His first trip well be a flight in an Italian Aidno country can offer a view righ as the sky burneler use from about the Bay of Nanto. The finhs will be continued from Rome by similare to Venroute north is not certain, seving to the chance in or, Warney, Riga, Hebington, Stackholm and the standard hope to Acuterdam, London and will have a great interest for the readers of Assaul time to write a short orticle about every week on some phase of flying in Europe.

It is a most mobbes for the rabbabase to some cal actides. If you are interested to some spread man. Tall on what was sho't May. You see speading four dollars a year to get what you want. Polace the added carendown of a strong or tonwould bring you released extens on your original or would be greatly approviously



GRAPHTER OF CHIS SCHOOL HAVE & REAL ASPERTAGE

WHERE TO PROCURE EQUIPMENT AND SERVICES

TACHOMETER PIONEER, INSTRUMENT COMPANY



STATES OF STATES AND STATES OF STATES BARGAINS

September 19, 1927

Are The Secretary State a \$1000 cmd. Now \$100 c 200 c Air Spec, 10221D SEAMLESS STEEL TUBING

Duniel Corresheira School of Assurantee Courses in Aeronautical Regineering and Industrial Aviation. For particulars apply to the Dean of the College of Engineering. N. Y. University, University Heights, New York, N. Y.

Complete Warehouse Stock for Immediate Stapment in eny Queenby SERVICE STEEL CO. DOLLHOLF PARTY

EXPERT ADVICE ON YOUR AVIATION INSURANCE PROBLEMS

AVIATION INSURANCE PROBLEMS
pulse as solide to see to indicate the second particular par

TRAVEL AIR-STINSON

Cantani States Monocourse

GEORGE A. WIES, Inc.

Ask Our Advertisers ... LIBERTY MOTORS ...

THE DESIGNATION OF PARTY PARTY. POSENSON MOTOR PRODUCTS, Inc.

THE ENTIRE AERONAUTICAL INDUSTRY

Reand New LIBERTY & OXX6 MOTORS

INTO SHORMAKER AVE. DETROIT MICH

LUXOR GOGGLES gine fit, second vices, complete conduct, Were by harden swinters. se un Estategrant arrive

Owner FP-M.

THE AIRCRAFT SERVICE DIRECTORY Brings You Into Weehly Contact With

Where to Flu (4) CONTINUED

Other It Supple Projects' to Lance Say Piples Intell.

personal. Horsel school thouse men dent alugarent. April de lie lee Photosel. Lan z. 8810000. Messawalla RO BICCOVIATORALLET ALBELIANS CO. Complete Bring in spinions, by hear or by remains covering plates, orne making allerance indicates, seen. Boar thing and new means indicated plus man at members in rese. No deposit managed on not Made when the Res personnels. Made that the property of the pro-And the second of the second of the second

COARS WARD STREET PARTIES
Rection As ferries Company, be. William Distallar
Fights chang to follow Recient Masserie, Medicine, and
veryigne, Wyonke, Lanet to Recient Masserie, to designe, and
veryigne, Wyonke, Lanet to Recient Masseries, to pro-PER PERSON METCOS PARSE STREET, Consists firing beare, stress at \$20.00 per hour as municipal service. All independent on Short Sale All Eling Friend, Jeanwales on poor out All Easy place of \$50 per hour Thomas A. Watchin, Sandray Laruphy, Patrones, R. & New Course Short-State of All Easy Streets.

NAME ASSESSED. THE WIPPER GOALD STREET, He have driven and proved added others. Mother equipment, Experienced Emptedies, He having band statem from the drawn of the Hardest Art drawn to The Miller Conventions, How Francount Art Park, New Processors & H. J. Foll the mine went of step on

CENTUM PURING SHRVICE DEC. GARDEN CIT CHILDS PLEAS SERVICE DEC. GARDIN CITY. N. T. D. 1996. the date compared for more last last library and an extended for the compared of the compared compared on the compared co Il some

---MARKER PLEISO CYTERE From was field an Online River, Francisco, S. C. Intel Error movings abbreve lands of their York to proposed, best less Friends Converge, Se Robbey bred required. First for death LANS TITLE SPERIORS, STULLEGES, WILLIAMSERFEL.

INDIAN LAKE ATTATION COMPANY REPORTED SCHAL ORDO EXPOSEASE POORY, ORIO,

Learn to fy tor grading at locker late, there adding data
plangurant. From close to this price, steering from 1. We are
in our overall proposed masses of implicit and passenger week COMPLETE PLANS CHANGE

All you round school. THE DEBUT-REPORT COMPANY, WACO DETRIBUTES

NOTIFICAT WACO SISTERATIONS Pithten de Mel Tarainel, C.A.R. No. 11. LOWER PRINT THE PARTY Hal address: Rea 613, McReagers, Pa.

DER CON PARTON COUNTY STORE BYING BYING AS PROPOSED BY THE PRO DITTERATIONAL PARING SERVICE the most opposite of the property of the prope

LOTE TIME THE PROPERTY PLATES AND AND AND ADDRESS OF THE PARTY OF THE MANUR PLYING SERVICE thir Yes Streeters 1311 Was Bredwit harbon backers, Wadants At Spine home-free is personally given by this denser, her or more and sent and favor paper give. The years of first expensable from the restaurch Wife. PART IN DURING TRAFFIC BY AM hanned Anners the Stelle Line between Landon and the

DATEDIAL ANDWAYS, 525 Madion Ave. Plans 6796 TOUR card, in this directory, serves to keen woor flying service continuously

before the readers of AVIATION at triffing Write for Repen AVIATION

250 West 57th Street, New York City

WHERE TO PROCURE EQUIPMENT AND SERVICES

EVERYTHING FOR THE AIRPLANE Annual for Charlespase or page allows a manual page of the charlespase CRAWFORD ADDITIONS COMPANY OR WASHINGTON SEVEN OF THE PARTY CALLFORNIA.

THE EMBRY DIDDLE COMPANY Inc. WACO Couples Los at Supples on Head ONS Matte Parts Couples Line ALL BRANCHES COMMERCIAL AVIATION

When Bearing are than arrivers are not agreement Williamsoftle, N. T.

New Curtiss lower wines \$55.00. Person for addisorables \$10 size - \$5.66 MARVIN A. NORTHBUP 100 WASHINGTON AVE., NORTH

SATEL BLYDS CHICKS and APAITING CONTROL ECRIPTIONAL AND CONCERNAL AVIATION Mad and Polyment Address Friday and Shops Main Report Popul tin Tributal Printer 181111 Main S., Soil St. Ma. Saw York, S. L. Leb. Saw Joseph Philadelphia, Po-

The York, S. T. Lo

HAGERSTOWN

Place Your Product Before the Industry by Advertising in The Directors

KREIDER-REISNER AIRCRAFT CO., INC. Warn Distributors Deline Donter nery \$5.00 and proved for cash with reder. Battury and Coll Booster to take place of hand magneto for storing \$6.00.

Record-breaking planes are built with HASKELITE Plyword P SACTICULAY of the American places making in P and Sights have been leads with MARKALITE Still of the physical cond to American places in EXECUTE. On the proceeding in the pumping or win BASKELITE MANUFACTURING CORPORATION

133 West Warkenten Street, Ludington Philadelphia Flying Survice OTHER PROPERTY AND ADDRESS OF PERSONS ASSESSED. PASSELL F. O. PHILADELPHIA PA-Computer Visit Passellin Agency for VACO Maters Print Institution Cycles. Theorem From Managings.

CITY OFFICE, ATLANTIC BLOG, PHILADELPHIA, PA. The Gogeles that Protec RESISTAL GOGGLES

Freir Dr. ministe OTPAUDS & PURCHASES THE OWNERSTY ASPERD, MERKE COMPANY OR VEHICLE VALUE OF THE PERSON Largest and had equipped commencial field in the furnishment Propert is not you tray out. Histo MUTCH, ADDPLATE ADDRESSANS. WACO STREET, WACO Pear-round after of very complete fighty crosse deschaded by

THE UNIVERSITY SCHOOL OF AERONAUTICS We Have It-and the Price Is Right PRESIDENCE PROPERTIES EATERPOON PLOUS PARTY BOOK PARTY IN THE PROPERTY OF PERSONS PROPERTY PRO MR Callege Street,

We have for immediate different, now Liberty metros, Harvana year, good plan and from places of various types and makes PACO PRODUCTS PAYME EXPOST AND DEPOST OF

For East & Donnello LIBERTY TIDEDTY For Arphore & Seate THE VIMALERY COMPANY, I.M. Jessy Cap, N. L. E. S. &

PARAGON PROPELLERS

September 19, 1922

RETTER THAN EVER Paragon Engineers, Inc. Baltimore, Muryland

AEROTECH Inc. Aeronautical Engineering Design Stress Analysis, Reports, Appraisals, Streator, III.

F. G. ERICSON, F. R. As. S. AEROPLANES

ATEPLANCE PLYING BOATS MUTCHS ENTERING

ATOPLANE SPOTES poons dring - boool hird barks -Prompt adjacents to rectard and the three rectard;

y to printing a Company, Adjacent Messanders,

Horizonean Ench Sadden, Fordat Grape,

proceedings in Arriva prints on Example.

place rises toring Cable per etc. Also translation, GES and GS parts, 774G parts and propiles IRELAND AIRCRAFT, INC. Garden Chy. Long Island

AIRCRAFT SUPPLIES Based addition in our stock of with matter and have whom at another and extry second money, and note your new years MONUMENTAL ARRICHAPT, DIC.

Baltimore, Md.

1800 N. Coloves Stu-

NEW ROOM - DOMESTICS ARTORNY TACH SHAFTS. Air Corps. Spor., Phy St. hog. Ma CES and STR. Tech. Stock.

\$4 AND TRANSPORT EQUIPMENT CO., CARLE PLACE, L. L. R. Y. Airplane Pisten Rines

honor-barber and others prog-F. A. SLUTT CO.

SCADTA AIR LINES About the principle of the passes of the control of AMERICAN TRADING COMPANY New York Con-

- LEARN TO FLY -BYAN · CURTISS · WACO-10 CANTLET form and provide course. Had fighty unables the most determine troops and stone toward habits FRANK BAKER AIRPORT CONTROLL STOP COLVER CITY, CALIF. VZZZION

> THERE ARE FORTY-FIVE DIRECTORY THIS ISSUE

SWALLOW

For Performance and Comparison — The LAST WORDS, A. B. FRAMPION, 211 W. North Ave., Problem, Pa-Establish of the Union of Automatic STREET, LINES STREET, PROPERTY.

This Section Is Growing With Every Issue



ADDPLANE COVERS NAME AND ADDRESS OF THE PARTY OF THE Party and the state of the stat E-will ill

BURLINGTON AIRPLANE COMPANY

Mondactures of and fundages, and mate on conceable gener Days, Shock and by the case Time 2004; \$0.50 Time 2004

SAFETY Nanatall passents, bird, kilt manuface wises Special new fool wond come \$5.00.

MAHASKA, KANSAS



Dusting Hoppers and Equipment Designed and Constructed for DUSTING PLANES

P. O. Roy 607 New Orleans, La. PATENTYOUR DEAS

CENTRAL AMCRAFT

Amateur SPORTPLANE Builders

way been been named for the health on Rabour, Staleder

LEARN to FLY 15th office you have in your was VARNEY AIRCRAFT CO. PEORIA. ILL.

KEEPING ABREAST

of accommission activities is possible only by reading

AVIATION

each week. Yearly subscription rates: United States \$4: Canada \$5: Foreign \$6.

> AVIATION 250 W STYR ST. NEW YORK CITY

CLASSIFIED ADVERTISING

FOR SALE

Two K-6 motors in pad resease confiture with respected NEW LIBERTY 12-21000. New and unued Pushard 400 kg. Liberty 19 surjes for sale. First \$1000 takes it.

relatil, K and O of meters for nelvy Stegati source parts and wags. Begow Are Leven, See, F. O. Ben D. Fast Wash-sighe, N. V. Floor 4000 Garden City. Will sell or tends for plane, usets or motors, Dodge special add. Perfect condition Countries where. Also brand new Standard Ji. Absolutely none so new with new boars GK-0 moder and Occurrement beams. Price right for such rights to field for the balance of this sensor. Write ar wire

WANTED Information as to observations Philip Hingtor, ago 15, black horr, light complexion, objectly storped. phase study avarious. Information exposure guaranteed. Mrs. 6. 5. Handows, 500 Nam. Percon Ave., Bidolph. N. C. Partridge, Ltr., Are Service and School. Distributed 1915

WHEN YOU WANT to buy, sell or exchange planes, motors and accessories or are in need of comneteri belo, se sceking a responsible position AVIATION Classified or "Directory" sels will recore advantappens. AVIATION, as the only weekly, covers your entire field first.

POR RALE: Her Blocked for place with 160 E Minpany Suits motor, \$2,100 Indianapolis Aviation Company, Indianapolis, Indiana. sector surface, both, pains wings. Ship in good condition. S. K. Prince, IT E. Reis Ave, Commun. N. Y. FOR SALE: Lawrence 20 by abplace sector, sever good. FOR RALE: Franci were Association 20-21 Stradena, 2 POST SALE: Pearl wer Accounties 28-81 Scripture, 2 phon, over Flam moder, set up and bed flower fleet of square parts, Would rounder trade on MF book. Fuel A. Wilcon, Manutain for Warren, B. L. FOR SALE: Our Wage 9 to A-1 shape. Our DELG in A-2 FOR SALE Extraorbio, OX-5 Arm, three plans could accluse teal. Special ireding gent. Oxed cover. Full set in struments. H. E. Guedo, 1653 W. 11 Ave., Corp., Indone. FOR RALE: Spul gardage new O.K.S. will give good perforances with kink FR conceptuar vice. Best offer puts R. W. E. Colley, 1331 Remarket Plane, Ard. 30, 410cm, Ga. FOR SALE: Very researchie, nearly new Switzer with

Can be seen at Parrichal Avelance Mrs. Corn. Parrichal

FOR SALE: Good and Cowork with completely gree-houled condition OVA reducted by the \$1000 Medicately und JN-ID resty for set up 8890 Slightly used JN-4D 5075 Lagua Availag. TS West FOR SALE: Two 35 Assur's new Book respectes, our

CLASSIFIED ADVERTISING 27 study is word, marinum shares \$7.50, Pepale or advance, \$45 case project in the particular, \$1.0 to Artistana, \$20 to orth m. N Y

FOR SALE (CONTINUED)

Annea 115 has radial codes. Complete with new Handbur.

STRUCKS OUT AVED CAMEL, etc. BOPWITH CAMBL, never firry, newly control and conducted, concan be repeated easily with steel televier recent, rest of force ing and shapping. No argainst sales. With deposit original to your appearab. Withher Arrival Corporation, 49th 84; our Polymer Are, Emire City, N. J.

EQUIPMENT WANTED

WANTED: 150 Hors in fair condition blate price. WANTED: Ween, Early, Air King, Syullow or other good skip of this glass \$1,000 resk, if skep worth more

AERONAUTIC SAFETY CODE

A Compendition of the Results of Four Years' Study by Louding Engineers, and Generament and Civilian Experts of the Aircraft Industry

Secured by the U. S. Bureau of Standards and the Assesson Engineering Standards Committee,

The Assumptic Soleto Cade owers GOOD PRACTICE AND SAFE METHODS in the Design, Construction, Tening, Operation and Maintenance of Account. Assertable Engages and Accounting. Analysis and Account Engages and

SENSIBLE EULES OF THE BOAD AND

SAFETY PROVISIONS FOR FLYING AND GROUND PERSONNEL

Fifty two Pages - Well Indexed AN ESSENTIAL REFERENCE GUIDE FOR

STNGLE COPIES \$1.50

A year's subscription to AVIATION (52 issues. \$4.050 and a rear of the Safety Code for \$5.00. AVIATION PUBLISHING CORP.

Day the Couper the ten couples

AVANTAN PUBLISHEND CORP. From my subscription to AVIATION

and sail sat a capy of the AERO. NAUTIC SAFETY Code. Five dolhas to cover is enclosed.

CODE AT \$150 and, for which I

A complete guide to the industry

> Troop core of the American Account Directory is ready for mailing. The American Aircraft Directory answers accurately and quarkly the thousand days seed which if arrowered or all, are us wanteful of time, efficiency and account Here, between two covers, as avealuable

and accomble information for aircraft executives, sales and purchasing officers. nical societies, schools and librarius writers and relitors, and overvone sorking facts. remeding American system. Here is a mailing list such as every live sides mareour has keen drawed for covering the

A comprehensive pade by states, other and towns of organizations, commonics.

Avorine Publishing Corporation 250 West 57th Street, New York City aligh board or \$5.00, _____paper loaned or \$3.00, for which find ______

AMERICAN AIRCRAFT DIRECTORY

Paper broad (Vitermed street

trade directory by products. Among state or lawn commercial relets and graduate aeronyutical conneces, marrileo-

parts and minerals, officers and managers pusses, together with their troducts or activators, principal officers of rutional. Send for your copy today.

CONFIDENCE!

Lindbergh, Chamberlin, Maitland, Byrd, Smith, Goebel and Jensen placed their confidence in the Wright Whirlwind engine—and astounded the world by their achievements.

Less spectactular, but equally significant, is the selection of this same engine by twelve out of fourteen entries in the Third National Air Tour for the Ford Trophy, in which Wright Whirlwind engines again won first and second places.

Public confidence in modern American aircraft powered with this proven engine is founded on a long record of unfailing service.



